Hoechst 33342

Catalog # U0334 Size 10 mL

Specification

Product Description	Hoechst 33342 nucleic acid stain is a popular cell-permeant nuclear counterstain that emits blue fluor escence when bound to dsDNA.
Chemical Name	2,5'-Bi-1H-benzimidazole, 2'-(4-ethoxyphenyl)-5-(4-methyl-1-piperazinyl)- 23491-52-3bis[(acetyloxy) methyl] ester
Chemical Formula	C27H37Cl3N6O4
MW	615.99
Detection Method	Fluorescent
Excitation (nm)	350
Emission (nm)	461
Solubility	Water
Sub-Cellular Localization	Nucleic acid
Cell Permeability	Cell-permeant
Form	Liquid
Concentration	10 mg/mL
Regulation Status	For Research Use Only (RUO)
Storage Buffer	Water
Storage Instruction	Store at 2-6°C and protect from light.

Applications

- Cell Staining

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Publication Reference

- Nicotinamide promotes pancreatic differentiation through the dual inhibition of CK1 and ROCK kinases in human embryonic stem cells.

  Yumeng Zhang, Jiaqi Xu, Zhili Ren, Ya Meng, Weiwei Liu, Ligong Lu, Zhou Zhou, Guokai Chen.

  Stem Cell Research & Therapy 2021 Jun; 12(1):362.

  Application: IF, Human, Human putative pancreatic progenitors

- Monitoring levels of vimentin-positive circulating cancer stem cells and tumor cells in patients with advanced EGFR-mutated non-small cell lung cancer.

  Chia-Lin Hsu, Tzu-Hsiu Tsai, Chun-Kai Huang, Ching-Yao Yang, Wei-Yu Liao, Chao-Chi Ho, Sheng-Yuan Ruan, Kuan-Yu Chen, Jin-Yuan Shih, Pan-Chyr Yang.

  Lung Cancer 2021 Jun; 156:50.

  Application: IF, Human, Human circulating tumor cells

- Middle East respiratory syndrome coronavirus nucleocapsid protein suppresses type I and type III interferon induction by targeting RIG-I signaling.

  Chang CY, Liu HM, Chang MF, Chang SC.

  Journal of Virology 2020 Jun; 94(13):e00099.

  Application: IF, Human, HEK 293T cells

- KCTD15 inhibits the Hedgehog pathway in Medulloblastoma cells by increasing protein levels of the oncosuppressor KCASH2.

  Spiombi E, Angrisani A, Fonte S, De Feudis G, Fabretti F, Cucchi D, Izzo M, Infante P, Miele E, Po A, Di Magno L, Magliozzi R, Guardavaccaro D, Maroder M, Canettieri G, Giannini G, Ferretti E, Gulino A, Di Marcotullio L, Moretti M, De Smaele E.

  Oncogenesis 2019 Nov; 8(11):64.

  Application: IF, Human, DAOY MB cells

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